

## H. Sauter's Formosa-Ausbeute (Elateridae I.)

Von Yushiro Miwa, Formosa.

*Lacon Kawamurae* Miwa, Trans. Nat. Hist. Soc. Formosa, XIX, No. 102, p. 230, (1929).

Kosempo: VII, 1908.

*Nealacon formosanus* Miwa, Trans. Nat. Hist. Soc. Formosa, XIX, No. 102, p. 235, f. 2, (1929).

Kosempo: 7. VII, 1911.

*Megapenthes bicarinatus* Lewis, Ann. Mag. Nat. Hist. (6). XIII, p. 43, (1894).

Taihorin: 22. VIII, 1911.

*Pengamethes oblongicollis* Miwa, Trans. Nat. Hist. Soc. Formosa, XIX, No. 105, p. 492, (1929).

Fuhosho: VIII, 1909. Taihorinsho: VIII, 1909.

*Melanoxanthus montivagus* Miwa, Trans. Nat. Hist. Soc. Formosa, XIX, No. 105, p. 491, (1929).

Kosempo: 23. V, 1912.

*Cardiophorus Yanagiharae* Miwa, Ins. Mats. II, No. 2, p. 109, f. 5, (1927).

Tainan: V, 1912.

*Cardiophorus formosanus* Matsumura, Mém. Soc. Ent. Belg. XVIII, p. 145, (1911).

Tainan: 22. VII, 1911.

### *Cardiophorus anpingensis* sp. nov.

Dark brownish or sometimes testaceous, shining, clothed with fine golden grey hairs. Head impressed between the eyes, very closely and rather coarsely punctured; frontal carina arched anteriorly and depressed at centre. Pronotum convex, rather longer than width, somewhat rounded at sides and the widest at middle; very densely and rather unevenly punctured; with a longitudinal median elevation which is mostly obliterated at the middle part; hind angles short and slightly incurved; scutellum relatively broad and deeply foveolated anteriorly. Elytra punctate-striate; interstices raised, minutely and unevenly punctulated. Antennae slender and much longer than head and prothorax combined; somewhat pale in colour. Legs also paler. — Length.  $6-7\frac{1}{2}$  mm. Width:  $1\frac{1}{2}-1\frac{3}{4}$  mm.

Anping: V, 1912.

*Paracardiophorus devastans* Matsumura, Mém. Soc. Ent. Belg. XVIII, p. 145, (*Cardiophorus*) (1911).

Anping: VII, 1911 and 1912.

*Neodiploconus angulatus* Candèze, Monogr. Elat. III, p. 297, (*Diploconus*) (1860).

Kankau: VII, 1912.

***Neodiploconus castaneus* sp. nov.**

Bright chestnut brown, shining, with golden yellow pubescence. Head nearly quadrulate but somewhat arched anteriorly; very closely and rather reticulately punctated. Pronotum convex, widest at the base, gradually narrowing anteriorly; punctuation like that of the head on the lateral part, a little sparser and finer on the disc; hind angles acuminate and turned outwards, with double distinct carinae; scutellum convex, nearly oblong, with somewhat feebly rugosed surface. Elytra with acutely punctured striae; interstices minutely and rather sparsely punctulated; the apex of elytron slightly emarginated. Antennae, 2nd joint nearly as long as 3rd and much shorter than others, from 4th joint to 10th elongate triangular and together forming a distinct serration. Legs moderately slender; claws reddish. — Length: 10-12½ mm. Width: 2½-3 mm.

Kosempo: 22.V, 1912. Alikang: VI, 1909.

Cotype in Ent. Mus. Govrn. Res. Inst. Formosa.

Kagi: IV, 1907 (S. Matsumura). Kanshirei: 18.IV, 1928 (R. Takahashi).

Horisha: VII, 1926 (Y. Miwa). Rokkiri: 3.V, 1908 (I. Nitobe).

*Neodiploconus sanguinicollis* Miwa, Trans. Nat. Hist. Soc. Formosa, XX, No. 107, p. (1930).

Kosempo: 7.V, 1911.

*Neodiploconus elegans* Szombáthy, Ann. Mus. Nat. Hung. VIII, p. 358, (*Diploconus*) (1910).

Kosempo: 7.V, 1912.

*Spheniscosomus melanotoides* Miwa, Trans. Nat. Hist. Soc. Formosa, XX, No. 107, p. (1930).

Suisharyo: II, 1912. Kosempo: VII, 1908.

*Melanotus tamsuyensis* Bates, Proc. Zool. Soc. Lond., p. 349, (1866).

Chosokei: 1914. Kosempo: 7.V, 1911.

***Athous rufithorax* sp. nov.**

Reddish with somewhat opalescent tint; elytra fuscous with aeneous lustre; fine tawny pubescent. Head nearly quadrulate; with

a triangular impression between the antennae, which is elevated longitudinally in the middle of bottom; densely and rather strongly punctured. Pronotum convex, nearly oblong and well margined at sides; with a feeble median longitudinal channel; punctation very dense but rather finer than that of head; hind angles relatively short and prolonged backwards, with an acute carina; scutellum convex, nearly circular, with a longitudinal median carina and coarse punctation. Elytra conspicuously striated with strong punctation; interstices rather elevated and feebly rugose. Antennae feebly serrated; 2nd joint shortest, 3rd more or less longer than others. Legs rather fuscous; 1st tarsal joint longer than others and nearly as long as the following three joints combined, 3rd much dilated, 4th very small. - Length: 10-12 $\frac{1}{2}$ mm. Width: 2 $\frac{1}{4}$ mm.-2 $\frac{3}{4}$ mm.

Taihorin: 7.VI, 1911.

Cotype in Ent. Mus. Govern. Res. Inst. Formosa.

Horisha: VII, 1926 (Y. Miwa).

***Csikia taiwana* sp. nov.**

Bright chestnut brown, metallic shining, clothed with long fine fulvous piles. Head nearly quadulate, rather sparsely and unevenly punctured, with a feeble fovea on each frontal corner; frontal carina depressed in the middle and arched downwards. Pronotum convex, well margined at sides, with a long carinated ridge along the each lateral margin from the base to the anterior margin; very finely and rather unevenly punctulated; hind angles acuminate and turned outwards. Elytra punctate-striate; interstices rather feebly rugose, the external interstices somewhat dilated and rather furrowed. Antennae pitchy brown, slender and more twice longer than prothorax; 2nd joint shortest; from 3rd to 11th nearly similar in length. Legs somewhat paler; 3rd and 4th tarsal joints dilated below; claws reddish. Length: 8 $\frac{1}{2}$  — 10 mm. Width: 3 $\frac{1}{4}$ mm.-4 mm.

Taihorinsho: VIII, 1909.

Cotype in Ent. Mus. Govern. Res. Inst. Formosa.

Mt. Arisan: 10.X, 1912 (I. Nitobe). Kwareenko: VII, 1929 (Y. Miwa). Baibara: VII, 1926 (Y. Miwa).

***Agriotes fuscus* sp. nov.**

Fuscous, little shining, with tawny pubescence. Head darker, convex; very closely and rather coarsely punctured. Pronotum convex, rather longer than width, with a feeble median longitudinal channel which is obsolescent anteriorly; punctation somewhat finer

and much denser than that of the head; sides rather parallel; hind angles somewhat pale in colour, relatively short but acute, with a carinated ridge; basal furrow deep and very conspicuous; scutellum elongate pentagonal and slightly excavated. Elytra with punctured striae; interstices minutely and very unevenly punctulated. Antennae pale brownish yellow; 2nd and 3rd joints nearly similar in length and shorter than others. Legs concolorous with antenna; claws not toothed. — Length:  $11\frac{1}{2}$  mm. Width:  $2\frac{3}{4}$  mm.

Sokutsu (Banshoryo district): 7. VII, 1912. Kosempo: 7. IX, 1909.

*Agonischius obscuripes* Gyllenhal, in. Schönh. Syn. Ins. III, Append. p. 131, (1817); Candèze, Monogr. Elat. IV, p. 421, (1863): Miwa, Ins. Mats. III, No. 1, p. 47, (1928).

Kosempo: 22. V, 1912. Alikang: V, 1909. Kankau: V, 1912. Tainan: 7. V, 1912. Taihorin: 7. V, 1911.

var. *Candezellus* Miwa Ins. Mats. III, No. 1, p. 48, (1928).

Kankau: VI, 1912. Kosempo: VI, 1911.

var. *brunneus* Miwa, Ins. Mats. III, No. 1, p. 48, (1928).

Kosempo: 22. V, 1912. Sokutsu: 7. VI, 1912.

var. *marginicollis* Miwa, Ins. Mats. III, No. 1, p. 48, (1928).

Kankau: V, 1912.

var. *taikozana* Miwa, Ins. Mats. III, No. 1, p. 49, (1928).

Sokutsu: 7. VI, 1912. Kosempo: V, 1912.

var. *sanguinicollis* Miwa, Ins. Mats. III, No. 1, p. 48, (1928).

Kosempo: 22. V, 1912. Chikutoki: V, 1911. Kankau: V, 1912. Taihorin: 7. VI, 1911. Alikang: VI, 1909.

var. *ruficephalus* Miwa, Ins. Mats. III, No. 1, p. 48, (1928).

Kankau: V, 1912. Kosempo: 22. V, 1912.

*Agonischius vittiger* Heyden, Horae Soc. Ent. Ross. XXI, p. 267, (1886).

Sokutsu: 7. VI, 1912. Alikang: VI, 1909.

*Glyphonyx rubricollis* Miwa, Ins. Mats. III, No. 1, p. 49, pl. 1, f. 16, (1928).

Taihorinsho: VIII, 1909. Kosempo: 22. V, 1912. Kankau: IV, 1912.

***Glyphonyx longulus* sp. nov.**

Reddish brown, little shining, clothed with fine golden grey piles. Head convex, very densely and rather reticulately punctated, with a feeble median longitudinal channel. Pronotum convex, rather

longer than width, very closely punctured on the lateral part but somewhat finely and sparsely on the disc; hind angles acute and prolonged backwards, with a long carinated ridge which is prolonged anteriorly nearly as long as two thirds of entire lateral margin; scutellum convex, nearly obtuse triangular, very finely and rather feebly punctulated. Elytra striated with punctures; interstices finely but rather unevenly granulated. Antennae bright red-dish yellow and shining; 2nd joint nearly as long as 3rd but shorter and slenderer than others. Legs concolorous with antenna. — Length: 8 — 9 mm. Width:  $1\frac{3}{4}$  mm.- $2\frac{1}{4}$  mm.

Kosempo: 22. V, 1912.

Cotype in Ent. Mus. Govern. Res. Inst. Formosa.

Horisha: VIII, 1929 (Y. Miwa). Rônô: 4. V, 1909 (I. Nitobe).

***Silesis Sauteri* sp. nov.**

Dark chestnut brown, shining, with tawny pubescence. Head convex, longitudinally channelled in the middle, very densely and rather evenly punctured; frontal carina more or less excavated. Pronotum convex, nearly as broad as long, rather parallel at sides; with somewhat denser and finer punctation than that of the head; a feeble longitudinal channel running in the middle; hind angles acute, slightly and gradually curved outwards, with a long distinct carina which is prolonged forwards to the anterior angle; scutellum nearly ovate, sparsely and rather faintly punctulated. Elytra strongly punctate-striate; interstices flat, minutely punctulated. Antennae bright in colour and much shining; 2nd and 3rd joint shorter and slenderer than others, from 4th joint to 10th together forming a feeble serration. Legs fuscous; tarsi paler. This species resembles somewhat *S. assimilis* Candèze, and *S. okinawensis* Miwa, but differs from the latter as follows:

1. Hind angles of pronotum with a long carina which is prolonged forwards to the anterior angle . . . . . (2)  
— Hind angles of pronotum without such carina . . . . . ***assimilis***
  2. Head with a longitudinal median channel; frontal carina excavated . . . . . ***Sauteri***  
— Head without channel; frontal carina transverse ***okinawensis***
- Length: 8 mm.-11 mm. Width:  $2\frac{1}{4}$  mm.- $2\frac{3}{4}$  mm.

Fuhosho: VIII, 1909. Kosempo: 22. V, 1912. Taihorin: 7. VIII, 1911. Taihorinsho: VIII, 1909.

Cotype in Ent. Mus. Govern. Res. Inst. Formosa.

Horisha: VII, 1926 (Y. Miwa). Musha: V, 1919 (T. Okuni).

Mt. Arisan: X, 1918 (J. Sonan). Tabo: VIII, 1923 (T. Shiraki).  
Shinchiku: VII, 1918 (J. Sonan).

### Literature referred to.

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Bates, H. W. — On a Collection of Coleoptera from Formosa, sent home by R. Swinhoe, Esq., H. B. M. Consul, Formosa, (1866). (Proc. Zool. Soc. Lond.).  
Heyden, L. — Verzeichnis der von Herrn Otto Herz auf der chinesischen Halbinsel Korea gesammelten Coleopteren, (1887). (Horae Soc. Ent. Ross.).  
Lewis, G. — On the Elateridae of Japan, (1894). (Ann. Mag. Nat. Hist.).  
Szombáthy, K. — Elatèrides nouveaux ou peu connus appartenant au Musée National Hongrois, (1910). (Ann. Mus. Nat. Hung.).  
Matsumura, S. — Beschreibung von am Zuckerrohr in Formosa schädlichen oder nützlichen Insecten, (1911). (Mém. Soc. Ent. Belg.).  
Miwa, Y. — New and some rare Species of Elateridae from the Japanese Empire, (1927-28). (Insecta Matsumurana).  
Miwa, Y. — Elateridae of Formosa, I, II, III, IV, (1929-30). (Trans. Nat. Hist. Soc. Formosa).

### Anmerkung des Deutschen Entomologischen Institutes:

Wir fügen der Miwa'schen Liste der H. Sauter'schen Formosa-Elateriden eine Aufzählung der H. Sauter'schen Formosa-Elateriden hinzu, welche wir aus früherer Zeit der Liebenswürdigkeit des Herrn Ed. Fleutiaux verdanken:

*Hemiops flava* Cast. Paroe, nördl. Paiwan-Distr. IX.; Kankau IX.; Taihorin; Postanwan, Paiwan-Distr. IX.; Fuhosho VI.

*Glyphonyx rubricollis* Matsum. Taihorinsho VIII.; Banshoryo Distr. Sokutsu; Kosempo VIII.; Taihorin; Kankau V.

*Agrypnus politus* Cand. Taihorin; Kosempo 7. VII.; Kankau (Koshun) 7. VIII.; Hokuto 7. X.; Chip Chip II.

*Lacon formosanus* Bat. Kankau (Koshun) VI.; Pilam VII.; Tainan 7. VIII.; Banshoryo Distr. Sokutsu IX.; Kosempo VI.

*L. setiger* Bat. Sokutsu 7. VI.; Banshoryo Distr. Sokutsu 7. VIII.; Taihorin 22. VIII.

*L. bipapulatus* Cand. Fuhosho VIII.; Banshoryo Distr. Sokutsu IX.; Hoozan IX.

*L. taciturnus* Cand. Sokutsu 7. VI.

*L. kainuanus?* Miw. Kankau (Koshun) VI.

*L. modestus* Cand. Anping V.

- L. musculus* Cand. Anping VI.-VII.; Kosempo 7. IX.; Fuhosho VIII.  
*Aeoloderma sinensis* Cand. Anping 22. VII.  
*Alaus larvatus* Cand. Banshoryo Distr. Sokutsu 22. VI.-IX.;  
 Fuhosho VIII.; Kosempo 7. X.-7. XII.  
*Tetrigus lewisi* Cand. Sokutsu Banshoryo Distr. 7. VII.  
*Campsosternus auratus* Druy Kankau (Koshun) V.; Kosempo V.-7.  
 VII.; Taihorin 22. VI.; Sokutsu Banshoryo Distr. 22. VI.  
*C. gemma* Cand. Kosempo 7. VII.; Sokutsu VI.-7. VII.; Le. Hi. Ku.  
 VII.  
*Pectocera fortunei* Cand. Kosempo 22. VII.  
*Sephilus formosanus* Schw. Chip Chip XI.  
*Heteroderes triangularis* Eschztz. Taihorin VII.; Kankau (Koshun)  
 VII.; Anping VII.  
*H. intermedius* Cand. Anping 22. VII.  
*H. albicans?* Cand. Pilam I.  
*Megapenthes ligatus* Cand. Kosempo 22. V.-VI.; Alikang V.  
*Melanoxocanthus melanocephalus* F. Anping 22. VI.-12. VIII.  
*M. nigripennis* Fleut. Kosempo 22. V.-7. VII.  
*M. luzonicus* Fleut. Taihorin 7. VII.  
*Anchastus Castelnani* Cand. Taihorin 7. VII.  
*Cardiophorus nothus* Cand. Taihorin 7. VI.; Kankau (Koshun) V.  
*C. carduelis* Cand. Kosempo 7. VII.  
*Melanotus venalis* Cand. Kosempo IV.-22. VII.  
*Ludius niponensis* Lewis Sokutsu Banshoryo Distr. 7. VII.  
*L. Sieboldi* Cand. Banshoryo Distr. Sokutsu IX.; Kosempo 7. VII.  
*Neotrichophorus plebejus* Cand. Anping VI.; Kosempo 7. IX.  
*Agonischius obscuripes* Gyll. Kosempo 7. V.-22. VI.  
*A. tonkinensis* Fleut. Kosempo 23. V.-VI.; Kankau (Koshun) IV.;  
 Banshoryo Distr. Sokutsu 7. VII.
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